Connecticut Common School Journal.

Published under the direction of the Board of Commissioners of Common Schools.

VOL. III. HARTFORD, MARCH 15, 1841. NO. 10.

We feel that we shall be doing our readers a service by publishing a catalogue of the several libraries which have been prepared for school districts and families, and which have been presented to the 6th school district, Windsor.

We have no hesitation in expressing our preference of the school library published by Marsh, Capen, Lyon & Webb, under the sanction of the Massachusetts Board of Education. The works embraced are adapted to the reading of the American people, are printed with remarkable accuracy and in beautiful type, and bound in a strong and attractive manner. The glossary attached to each volume enables every one to understand the technical terms, and biographical, historical, classical, and scientific allusions, which are constantly occurring in works not written expressly for the young or the comparatively uneducated. The want of a glossary is a serious objection to all of the libraries now before the public.

We also add selections from N. B. Chamberlain's catalogue of apparatus. Our selection is very incomplete, as the catalogue embraces 72 pages, and every variety of article under each division. A catalogue of Prof. Haskell's apparatus follows, remarks on which may be found on p. 99, 100.

THE SCHOOL LIBRARY.

MARSH, CAPEN, LYON, & WEBB.

No. 109, Washington-st., Boston.

Are now publishing, under the sanction of the *Massachusetts Board of Education*, a collection of Original and Selected works, entitled,

THE SCHOOL LIBRARY.

The Library will embrace two series of fifty volumes each; the one to be in 18mo., averaging from 250 to 280 pages per volume; the other in 12mo., each volume containing from 350 to 400 pages. The former, or Juvenile Series, is intended for children of ten or twelve years of age and under; the latter for individuals of that age, and upward,—in other words, for advanced scholars and their parents.

Each volume requiring it, will contain a Glossary of scientific terms, foreign words and phrases, obsolete or unusual modes of expression, and descriptions of places and accounts of individuals spoken of.—Whenever the subjects render it necessary, they will be amply illustrated by well-executed wood cuts, and copperplate and steel engravings.

The plan will embrace every department of Science and Literature, preference being given to works relating to our own country, and illustrative of the history, institutions, manners, customs, &c., of our own people. Being intended for the whole community, no work of a sectarian or denominational character in religion, or of a partisan character in politics, will be admitted.

The intention is not to provide information for any one class, to the exclusion of others, but to disseminate knowledge among all classes. The Publishers wish the children of the Farmer, the Merchant, the Manufacturer, the Mechanic, the Laborer,—all, to profit by the lights of science and literature, that they may be rendered the more virtuous and happy, and become more useful to themselves, to one another, to the community, and mankind at large. To accomplish this desirable end, the Library will embrace so wide a range of subjects, that every one may find something which will prove useful and profitable to him, whatever his situation, circumstances, or pursuits may be.

The works will be printed on paper and with type expressly manufactured for the Library; will be bound in cloth, with goat-skin backs, having gilt titles upon them, and, for greater durability, cloth hinges inside of the covers.

The larger Series will be furnished to Schools, Academies, &c., at seventy-five cents per volume, and the Juvenile Series at forty cents per volume; which the Publishers advisedly declare to be cheaper than any other series of works that can be procured at home or abroad, bearing in mind their high intellectual character, and the style of their mechanical execution. Nineteen volumes of the large, and twelve of the Juvenile Series, are now ready for delivery.

The Publishers solicit orders from School Committees, Trustees, Teachers, and others, for either or both Series, and wish particular directions how, to whom, and to what place, the books shall be forwarded.

Among the individuals already engaged as writers for one or both Series, may be mentioned,—the Hon. Judge Story, Jared Sparks, Esq., Washington Irving, Esq., Rev. Dr. Wayland, Professor Benjamin Silliman, Professor Denison Olmsted, Professor Alonzo Potter, D. D. Hon. Judge Buel, Jacob Bigelow, M. D., Elisha Bartlett, M. D., Rev. Charles W. Upham, Rev. F. W. P. Greenwood, D. D., Rev. Royal Robbins, Rev. Warren Burton, Charles T. Jackson, M. D., N. Hawthorne, Esq., Robert Rantoul, Jr., Esq., Professor Tucker, Professor Elton, Professor Francis Lieber, Rev. Calvin E. Stowe, D. D., Professor Joseph Alden, D. D., Professor B. B. Edwards, Hon. Alexander H. Everett, Hon. Isaac Hill, Hon. James M. Porter, F. M. Hubbard, Esq., J. L. Hayes, Esq., I. Ray, M. D., Hon. Edward Everett.

Mrs. Sarah J. Hale, Mrs. E. F. Ellet, Mrs. Emma C. Embury, Mrs. A. H. Lincoln Phelps, Mrs. H. E. B. Stowe, Miss E. Robbins, Miss E. P. Peabody, Miss Mary E. Lee, Miss C. M. Sedgwick.

No work will be admitted into the Library unless it be approved by the Board of Education, which consists of the following individuals, viz: His Excellency John Davis, Chairman; His Honor George Hull, Rev. George Putnam, Robert Rantoul, Jr., Esq., Rev. Thomas Robbins, D. D., Professor Jared Sparks, Hon. Charles Hudson, Hon. George N. Briggs, Hon. William G. Bates, and John W. James, Esq.

The SILVER MEDAL of the American Institute of New-York was awarded to this Library.

The following books, belonging to the Large Series, *are already published.*

Life of Columbus, by Washington Irving.

Paley's Natural Theology, in two volumes, with selections from the dissertations and notes of Lord Brougham and Sir Charles Bell, newly arranged and adapted for the School Library, by Elisha Bartlett, M. D.

Lives of Eminent Individuals, celebrated in American History, in three vols. These volumes contain the lives of major-general John Stark, David Brainerd, Robert Fulton, captain John Smith, major-general Ethan Allen, Sebastain Cabot, Henry Hudson, major-general Joseph Warren, major-general Israel Putnam, David Rittenhouse, William Pinkney, Sir Henry Vane, major-general Anthony Wayne, William Ellery, and major-general Richard Montgomery.

The Sacred Philosophy of the Seasons, illustrating the perfections of God in the phenomena of the year. In 4 vols. By the Rev. Henry Duncan, D. D., with important additions, and some modifications to adapt it to American readers, by the Rev. F. W. P. Greenwood. Vol. 1, Winter; Vol. 2, Spring; Vol. 3, Summer; Vol. 4, Autumn.

The Useful Arts, considered in connexion with the Applications of Science. In two volumes. By Jacob Bigelow, M. D.

A Familiar Exposition of the Constitution of the United States; containing a brief commentary on every clause, explaining the true nature, reasons, and objects thereof; designed for the use of school libraries, and general readers. By the Hon. Judge Story, LL. D.

The pursuit of Knowledge under Difficulties; in two volumes, with preface and notes, by Francis Wayland, D. D.

The Farmer's Companion, or Essays on the Principles and Practice of American Husbandry. By the late Hon. Jesse Buel.

Great Events described by Distinguished Historians, Chroniclers and other Writers; collected, and in part translated, by Francis Lieber.

The Fireside Friend, or, Female Student. By Mrs. Phelps.

The Importance of Practical Education and Useful Knowledge; being a selection from his Orations and other Discourses; by the Hon. Edward Everett.

The following Works, belonging to the Juvenile Series, *are already published.*

Pictures of Early Life, or Sketches of Youth; by Mrs. Emma C. Embury.

Pleasures of Taste, and other Stories, selected from the Writings of Jane Taylor, with a Sketch of her Life, by Mrs. S. J. Hale.

Means and Ends, or Self Training, by Miss Catherine M. Sedgwick.

The Juvenile Budget Opened; being selections from the writings of Dr. John Aikin, with a sketch of his Life, by Mrs. S. J. Hale.

Social Evenings, or, Historical Tales for Youth, blending instruction with amusement; by Miss Mary E. Lee.

Selections from the Works of Mrs. Barbauld, with a sketch of her Life, by Mrs. S. J. Hale.

Scenes in Nature, or Conversations with Children on Land and Water.

Juvenile Budget Re-opened; being further Selections from the Writings of Dr. John Aikin.

Rambles about the Country; by Mrs. E. F. Ellet.

The Lives of Christopher Columbus, the discoverer of America, and Americus Vespucius, the Florentine.

The Lives of Vasco Nunez de Balboa, the discover of the Pacific Ocean, Fernando Cortes, the Conqueror of Mexico, and Francisco Pizarro, the Conqueror of Peru, by the Author of Columbus and Vespucius.

THE SCHOOL DISTRICT LIBRARY,

PUBLISHED BY

HARPER & BROTHERS, 82 CLIFF-STREET, NEW-YORK.

Embracing History, Voyages and Travels, Biography, Natural History, the Physical Sciences, Agriculture, Manufactures, Arts, Commerce, Belles Lettres, the History and Philosophy of Education, &c.

FIRST SERIES.

1, 2. A Life of Washington. By J. K. Paulding, Esq. Engravings.
3. The Poor Rich Man and the Rich Poor Man. By Miss C. M. Sedgwick.
4, 5. The Swiss Family Robinson; or, Adventures of a Father and Mother and Four Sons on a Desert Island. Engravings.
6, 7. The Natural History of Insects. Engravings.
8. The Son of a Genius. By Mrs. Hofland. Engravings.
9, 10, 11. American History. By the Author of "American Popular Lessons." Engravings.
12. American Revolution. By B. B. Thatcher, Esq.
13, 14. The Life of Napoleon Bonaparte. By J. G. Lockhart, Esq. Portraits.
15. The Principles of Physiology applied to the Preservation of Health, and to the Improvement of Physical and Mental Education. By Andrew Combe, M. D.
16, 17. Indian Traits; being Sketches of the Manners, Customs, and Character of the North American Natives. By B. B. Thatcher, Esq. Engravings.
18. Narrative of Discovery and Adventure in Africa. From the earliest ages to the present time. By Professor Jameson and James Wilson and Hugh Murray, Esqrs. Engravings.
19. The American Forest; or, Uncle Philip's Conversations with the Children about the Trees of America. Numerous Engravings.
20. A Popular Guide to the Observation of Nature; or, Hints of Inducement to the Study of Natural Productions and Appearances, in their Connexions and Relations. By Robert Mudie. Engravings.
21. Perils of the Sea; being Authentic Narratives of Remarkable and Affecting Disasters upon the Deep. Engravings.
22. Inquiries concerning the Intellectual Powers and the Investigation of Truth. By J. Abercrombie, M. D., F. R. S. With Questions.
23. Lectures on General Literature, Poetry, &c. By J. Montgomery.
24. Celestial Scenery; or, the Wonders of the Planetary System displayed. Illustrating the Perfections of Deity, and a Plurality of Worlds. By T. Dick, LL. D. Engravings.
25. Palestine, or the Holy Land. From the earliest period to the present time. By Rev. M. Russell, LL.D. Engravings.
26. History of Chivalry and the Crusades. By G. P. R. James, Esq. Engravings.
27. The Life of Sir Isaac Newton. By David Brewster, LL.D.
28. Live and Let Live. By Miss Sedgwick.
29, 30. The Chinese. A general Description of the Empire of China and its Inhabitants. By John Francis Davis, F. R. S. Engravings.
31. An Historical Account of the Circumnavigation of the Globe.—Engravings.
32. The Life and Actions of Alexander the Great. By Rev. J. Williams. With a Map.
33, 34. Letters of Euler on different subjects of Natural Philosophy: Translated by Hunter. With Notes, and a Life of Euler, by Sir David Brewster; and Additional Notes, by John Griscom, LL. D. With a Glossary of Scientific Terms. Engravings.
35. Memoir of the Life of Peter the Great. By John Barrow, Esq. Portrait.
36, 37. The Life of Oliver Cromwell. By Rev. M. Russell, LL.D. Portrait.
38. On the Improvement of Society by the Diffusion of Knowledge. By Thomas Dick, LL.D.
39. The Earth: its Physical Condition and most Remarkable Phenomena. By W. Mullinger Higgins. Engravings.
40. The Philosophy of the Moral Feelings. By John Abercrombie.
41, 42. Memoirs of Celebrated Female Sovereigns. By Mrs. Jameson.
43. History of Virginia. By Uncle Philip. Engravings.
44. The Ornaments Discovered. By Mary Hughs. Engravings.
45. Natural History; or, Tools and Trades among Inferior Animals. By Uncle Philip. Engravings.
46, 47. The Whale-Fishery and the Polar Seas. By Uncle Philip. Engravings.
48. Lives and Voyages of Early Navigators. Portraits.
49, 50. History of New-York. By William Dunlap. Engravings.

SECOND SERIES.

51, 52. Life and Works of Dr. Franklin. With a Portrait on steel. New Edition. In 2 vols.
53, 54. The Farmer's Instructer; consisting of Essays, Practical Directions, and Hints for the Management of the Farm, Garden, &c. By the Hon. Judge Buel. With Engravings. In 2 vols.
55, 56. The Pursuit of Knowledge under Difficulties; its Pleasures and Rewards. Illustrated by Memoirs of Eminent Men. 2 vols.
57. Animal Mechanism and Physiology; being a plain and familiar Exposition of the Structure and Functions of the Human System.—Designed for the use of Families and Schools. By J. H. Griscom, M. D. Illustrated by numerous Engravings.
58. The Elephant, as he exists in a Wild State, and as he has been made subservient, in Peace and in War, to the Purposes of Man.—Illustrated by numerous Engravings.
59. Vegetable Substances used for the Food of Man. Illustrated by numerous Engravings.
60, 61, 62, 63, 64, 65. Universal History, from the Creation of the World to the decease of George III., 1820. By the Hon. Alexander Fraser Tytler and Rev. E. Nares, D. D. Edited by an American. In 6 vols.
66. Illustrations of Mechanics. By Professors Mosely and Renwick. With numerous Engravings.
67. Narrative of Discovery and Adventure in the Polar Seas and Regions. By Professors Leslie and Jameson, and Hugh Murray, Esq. With Maps, Engravings, &c.
68, 69. Paley's Natural Theology, with Illustrative Notes. By Henry Lord Brougham, F. R. S., and Sir Charles Bell, K. G. H., F. R. S., L. & E. With numerous wood cuts. To which are added Preliminary Observations and Notes. By Alonzo Potter, D. D.—In 2 vols.

AMERICAN BIOGRAPHY. *Edited by* JARED SPARKS, Esq., viz:

70. Life of John Stark, by Edward Everett.—Life of Charles Brockden Brown, by William H. Prescott.—Life of Richard Montgomery, by J. Armstrong.—Life of Ethan Allen, by Jared Sparks. With a Portrait.
71. Life of Alexander Wilson, by Wm. B. O. Peabody.—Life of Captain John Smith, by George S. Hilliard. Portrait.
72. Life and Treason of Benedict Arnold. By Jared Sparks, Esq. Portrait.
73. Life of Anthony Wayne, by John Armstrong.—Life of Sir Henry Vane, by C. W. Upham. Portrait.
74. Life of John Eliot, the Apostle to the Indians, by Convers Francis. With a Portrait.
75. Life of William Pinkney, by Henry Wheaton.—Life of William Ellery, by E. T. Channing.—Life of Cotton Mather, by Wm. B. O. Peabody. With a Portrait.
76. Life of Sir William Phips, by Francis Bowen.—Life of Israel Putnam, by O. W. B. Peabody.—Memoir of Lucretia Maria Davidson, by Miss Sedgwick.—Life of David Rittenhouse, by James Renwick. Portrait.
77. Life of Jonathan Edwards, by Samuel Miller.—Life of David Brainerd, by Wm. B. O. Peabody. Portrait.
78. Life of Baron Steuben, by Francis Bowen.—Life of Sebastian Cabot, by Charles Hayward, Jr.—Life of William Eaton, by Cornelius C. Felton. With a Portrait.
79. Life of Robert Fulton, by Professor Renwick.—Life of Henry Hudson, by Henry R. Cleveland.—Life of Joseph Warren, by Alexander H. Everett.—Life of Father Marquette, by Jared Sparks. Portrait.
80. The Travels and researches of Alexander Von Humboldt. By W. Macgillivray, A. M. With Engravings.
81. The History of Greece. By Dr. Goldsmith. Prepared by the Author of "American Popular Lessons," &c.
82. Natural History of Birds; their Architecture, Habits, &c. With numerous Engravings.
83. Familiar Illustrations of Natural Philosophy, selected principally from Daniell's Chymical Philosophy. By James Renwick, LL. D. With numerous Engravings.
84, 85. Selections from the Spectator: embracing the most interesting Papers by Addison, Steele, and others. In 2 vols.
86. The elements of Geology, for Popular use: containing a Description of the Geological Formations and Mineral Rescources of the United States. By Charles A. Lee, A. M., M. D. Numerous Engravings.
87. The History of Rome. By Dr. Goldsmith. Edited by H. W. Herbert, Esq.
88. A Treatise on Agriculture; comprising a concise History of its Origin and Progress; the present Condition of the Art abroad and at home, and the Theory and Practice of Husbandry. To which is added a Dissertation on the Kitchen and Fruit Garden. By Gen. John Armstrong. With Notes, by the Hon. Judge Buel.
89. Natural History of Quadrupeds. Numerous Engravings.
90. Chaptal's Chymistry, applied to Agriculture. A new Translation, with valuable Selections from Sir Humphrey Davy and others.
91. Lives of the Signers of the Declaration of Independence. By N. Dwight, Esq. One volume, large 12mo.
92, 93, 94, 95. Plutarch's Lives. Translated from the Original Greek; with Notes, critical and historical; and a Life of Plutarch. By John Langhorne, M. D. and William Langhorne, M. A. Carefully corrected, and printed from the last London edition. In four large 12mo vols.

THIRD SERIES.

96, 97. The History of the United States. By the Hon. S. Hale. (An original work, written expressly for this library.)
98. The Life of Dewitt Clinton. By James Renwick, LL. D.

99. Applications of the Science of Mechanics to Practical Purposes. By James Renwick, LL. D. Numerous Engravings.
100, 101. Voyages for the Discovery of a Northwest Passage from the Atlantic to the Pacific, and Narrative of an attempt to reach the North Pole. By Sir W. E. Parry, Capt. R. N., F. R. S. Engravings.
102, 103, 104, 105, 106. The History of England. From the earliest period to 1839. By Thomas Keightley. With Notes, &c., by the American Editor.
107, 108. Life of Commodore Oliver H. Perry. By Lieut. A. Slidell Mackenzie, Author of "A year in Spain," &c. Portrait.
109, 110. The Life and Works of Dr. Oliver Goldsmith. By Washington Irving. Portrait.
111, 112. An Historical and Descriptive Account of British America, viz: Canada, Upper and Lower, Nova Scotia, New Brunswick, Newfoundland, Prince Edward Island, the Bermudas, and the Fur Countries; their History from the earliest settlement; their Statistics, Topography, Commerce, Fisheries, &c.; and their Social and Political Condition; as also an Account of the Manners and Present state of the Aboriginal Tribes. By H. Murray, F. R. S. E. Map.
113. Outlines of Disordered Mental Action. By Professor Upham. of Bowdoin College, Maine.
114. Selections from American Poets. By W. C. Bryant.
115, 116. Selections from Foreign Poets. By F. G. Halleck.
117. History of the Moors of Spain. Translated from the French Original of M. Florain.
118, 119. Distinguished Men of Modern Times.
120. Counsels to young Men, &c. By President Nott.
121. The Life and Adventures of Bruce, the African traveller. By Major Sir Francis B. Head. Portrait.
122, 123. The Life and Works of Dr. Samuel Johnson. By the Rev. Wm. P. Page. Portrait.
124. Political Economy. Its objects stated and explained, and its Principles familiarly and practically illustrated. By Rev. Dr. Potter.
125. The Life and Travels of Mungo Park; with the Account of his Death from the Journal of Isaaco, the Substance of later Discoveries relative to his lamented fate, and the Termination of the Niger. Engravings.
126. The Pleasures and Advantages of Science. By Lord Brougham, Professor Sedgwick, Gulian C. Verplanck, and the Rev. Dr. Potter.
127. Two years before the mast; a Personal Narrative of life at sea. By R. H. Dana, Jr. Esq., of Boston.
128. History of lost Greenland. By a Clergyman.
129. 130. American Husbandry; being a series of Essays, &c., designed for its Improvement, compiled principally from the Cultivator and the Genesee Farmer, with Notes and Additions by Willis Gaylord and Luther Tucker, Editors of the Cultivator, &c. Engravings.
131, 132. Uncle Philip's Conversations with the Children about the History of Massachusetts.
133, 134. Uncle Philip's Conversations with the Children about the History of New-Hampshire.
135. The Sidereal Heavens and other objects connected with Astronomy, as illustrative of the character of the Deity and of an Infinity of worlds. By Thomas Dick, LL. D.
136. First Principles of Chemistry; being a familiar Introduction to the study of that Science. By Professor Renwick.
137. Lives of Jay and Hamilton. By James Renwick, LL. D.
138. The Family Instructer; or, a Manual of the Duties, &c., of Domestic life. By a Parent.
139. History of Connecticut. By Theodore Dwight, Esq.
140. Stories for Young Persons. By Miss Sedgwick.
141, 142, 143. The History of France. By E. E. Crowe, Esq.
144, 145. The History of Scotland. By Sir Walter Scott.

THE FOURTH SERIES IS IN PREPARATION.

The Publishers give notice, that the above volumes may be purchased separately at *thirty-eight cents per volume*, with the exception of Nos. 91, 92, 93, 94, 95, which five volumes, being of double the size of the others, will be sold at 76 cents each. Every volume is warranted to be more strongly bound than odinary school books in leather binding.

SCHOOL LIBRARY.

OF THE

AMERICAN SUNDAY SCHOOL UNION.

The following series of books, with a plain case, panel door, lock and key, hangings and fastenings, fifty pamphlet catalogues, and a sheet catalogue attached to the inside of the door, all safely packed in a suitable box, and delivered at any place within the cities of New York, Boston, or Philadelphia—the whole for the sum of *Thirty Three Dollars.*

Orders may be addressed

Corresponding Sec. of Am. S. S. Union, 146 Chestnut street, Philadelphia.

J. C. Meeks, 152 Nassau street, New York.
W. B. Tappan, 22 Court street, Boston.
C. T. Cherry, 186 Main street, Cincinnati.

Vol. 1 Life of General Washington.
2 Life of Colonel Gardiner.
3 Memoir of A. H. Francke.
4 Pierre and his Family.
5 Edward and Miriam.
6 Memoir of Captain Wilson.
7 Life of President Edwards.
8 Life of Mrs. A. H. Judson.
9 Customs and Anecdotes of the Bedouin Arabs.
10 Juliana Oakley.
11 Ermina
12 John Urquhart.
13 Tahiti without the Gospel.
14 Tahiti Receiving the Gospel.
15 Tahiti with the Gospel.
16 17 18 19 Evening Recreations, parts I. II. III. IV.
20 Life of Peter.
21 Henry Martyn.
22 Omar.
23 India Mission.
24 Life of Oberlin.
25 Memoir of Catherine Brown.
26 Orissa.
27 Life of Daniel.
28 Winter Evenings' Conversations on the Works of God.
29 Life of Elisha.
30 Evidences of the Christian Religion.
31 Life of King David.
32 Selumiel; or, A Visit to Jerusalem.
33 Elisama; or, The Captivity and Restoration of the Jews.
34 Life of Moses.
35 History of Sandwich Islands.
36 Life of Elijah.
37 Ann Connover.
38 Life of T. T. Thomason.
39 Alice Brown.
40 Life of Philip James Spener.
41 Life of Jacob and his Son Joseph.
42 The Beloved Disciple; or, Life of the Apostle John.
43—1 Sketches from the Bible, 2 Beware of the Dog.
44 45 Scripture Illustrations, Vols. I. II.
46 The Five Apprentices.
47 48 Travels About Home, parts I. II.
49 Ellen Carrol.
50 Cousin Clara.
51 Robert Benton, and Little Henry and his Bearer.
52 Ruth Lee.
53 The Ringleader.
54 The Harvey Boys.
55 56 Natural History, vols. I. II.
57 Elnathan.
58 Family Conversations.
59 The Life of Cotton Mather.
60 First Day of the Week.
61 Last Day of the Week.
62 Week Completed.
63 My Grandfather Gregory.
64 Sister Mary's Stories.
65 Destruction of Jerusalem.
66 The First Man.
67 History of the Delaware and Iroquois Indians.
68 The Dairyman's Daughter.
69 Life of John Knox.
70 Life of Legh Richmond.
71 George Wilson and his Friend.
72 Olive Smith.
73 Memoir of an Officer, late of the United States Army.
74 The House of Refuge.
75 The Infidel Class.
76 Memoirs of Sergeant Dale.
77 Popular Superstitions
78 Little Theodore.
79 The First Falsehood.
80 Election Day.
81 Life of Rev. John Newton.
82—1 The Affectionate Daughter-in-Law, 2 Robert Hamet, the Lame Cobbler.
83—1 Father's Stories, 2 Busy Bee, 3 Wise King, 4 Abijah.
84 Hebrew Customs.
85 The Broken Hyacinth.
86 Anna Ross.
87 Memoir of Susannah E. Bingham.
88 Visit to the Isle of Wight.
89 The Fatal Ladder; or, Harry Linford.
90—1 The Anchor, 2 The Bible is True.
91—1 The Shepherd of Salisbury Plain, 2 The Orphan Asylum.
92—1 The Sisters, 2 The Good Son.
93—1 Harvest, 2 Susan Brooker; or, Where there's a Will there's a Way, 3 Betsey Green.
94 The Young Freethinker Reclaimed.
95 Christian Politeness.
96 Infant's Progress, by Mrs. Sherwood.
97 Life of Swartz.
98 Life of Bernard Gilpin.
99 My Friend's Family.
100 Wild Flowers; or, The May-Day Walk.
101 The Scottish Farmer.
102 Clara Stevens; or, The White Rose.
103 104 105 106 107 108 109 110 The Youth's Friend, 1830 '31 '32 '33 '34 '35 '36 '37.
111—1 Little Deceiver Reclaimed, 2 The First of April.
112—1 George Hicks, 2 The Sixpenny Glass of Wine, 3 The Four Pistareens, 4 Evening at Uncle Charles'.
113—1 Autumn Walk, 2 Morning Walk, 3 Evening Walk.
114—1 Murdered Mother, 2 The Flower Book, 3 The Watch-chain.
115 Union Bible Dictionary.
116 Natural History of the Bible.
117 History of Susan Ellmaker.
118 Catherine Gray.
119 Hadassah, the Jewish Orphan.
120 The Only Son.
121 Charles Clifford.

CHRISTIAN LIBRARY,

For Library Associations, Schools, and Families. Containing 45 *volumes of* 430 *pages. Price, with case,* $20. $19 *without case.*

The volumes are neatly and uniformly bound and lettered, in firm sheep, adapted to permanent use. The set embraces 19,530 pages, in a fair type for persons of every age, with *twenty-four steel plates* and numerous other engravings, those in volumes 25, 26, 27, being by Adams. The first 33 volumes contain *sixty-three* distinct works, *twenty* of which were written especially for *the young.*

1. Doddridge's Rise and Progress.
2. Wilberforce's Practical View, with Portrait, and Flavel's Touchstone of Sincerity.
3. Edwards' on the Affections, with Portrait; and Alleine's Alarm.
4. Bunyan's Pilgrim's Progress, with Engravings.
5. Baxter's Saint's Rest.
6. Baxter's Call, Dying Thoughts, and Life.
7. Memoir of David Brainerd, with Engravings; and Flavel on keeping the Heart.
8. Memoir of Henry Martyn, with Portrait.
9. Edwards' History of Redemption.
10. Pike's Persuasives to Early Piety, with Frontispiece.
11. Pike's Guide for young Disciples, with Frontispiece.
12. Memoir of Rev. Dr. Payson, with Portrait.
13. Nevin's Practical Thoughts, and Thoughts on Popery, with Frontispiece.
14. Evidences of Christianity. By Jenyns, Leslie, Littleton, Watson, and others.
15. Memoir of James Brainerd Taylor, with Portrait.
16. Memoir of Rev. Dr. Buchanan, with his Christian Researches in Asia.
17. Elijah the Tishbite. By Rev. Dr. Krummacher.
18. Bogue's Essay on the Divine Authority of the New Testament; and Keith on the Evidence of Prophecy, with Engravings.
19. Melvill's Bible Thoughts; and Foster's Appeal to the Young.
20. Mammon, by Rev. John Harris; and Henry on Meekness.
21. Mason on self-knowledge; and Morison's Counsels to Young Men on Modern Infidelity.
22. Memoirs of Rev. Samuel Pearce, and Rev. S. Kilpin, with Portraits.
23. Memoirs of Harlan Page, and Hannah Hobbie; with Portraits and Frontispieces.
24. Abbott's Mother at Home, and Child at Home, with Frontispieces; and Nathan W. Dickerman, with Portrait.
25. *Gallaudet's Scripture Biography*, Adam to Joseph, with Engravings.
26. Do. do. Moses, with Engravings.
27. Do. do. Joshua, the Judges, Ruth, and Jonah, with Engravings.
28. Gallaudet's Life of Josiah, with Frontispiece; Youth's Book on Natural Theology, with 26 illustrative Engravings; and Child's Book on Repentance, with Frontispiece.
29. Hooker's Child's Book on the Sabbath; Dr. Beecher's six sermon's on Intemperance; and Cotton Mather's Essays to do Good.
30. Memoirs of Mary Lothrop, with Frontispiece; John Mooney Mead, with Portrait; Henry Obookiah, with Portrait; and Caroline Hyde.
31. Flavel's Fountain of Life, or Christ in his Essential and Mediatorial Glory.
32. Abbott's Young Christian, with Frontispiece.
33. Memoirs of Newton, Leighton, and Swartz, and Burder's Sermons to the Aged.
34–45. *Religious Miscellany*. comprising the Society's General series of Tracts, with the Boatswain's Mate; in all 411 Treatises.

PHILOSOPHICAL AND ASTRONOMICAL INSTRUMENTS,

MANUFACTURED AND SOLD BY

N. B. CHAMBERLAIN,

No. 2 and 9 School Street, Boston.

The following extracts from Mr. Chamberlain's Catalogue, give a very imperfect idea of the variety of articles included under each great division. Our engagements are such that we cannot now make the selection more perfect, or more appropriate to our purpose. What follows will, we trust, attract the attention of parents, and teachers of our common and academical schools, and lead to the introduction of as extensive a supply of apparatus as their circumstances will allow. The cuts which illustrate the Common School Set, may be seen on page 106 of this volume.—*Ed. C. S. Jour.*

COMMON SCHOOL SET.

ORRERY, mounted on a mahogany stand, with cut brass gearing; hard soldered copper or brass tubes, to which the arms are affixed with brass hubs. The Primary Planets can be turned on their axes by the hand; the Secondaries, which are put on with brass hubs, may also be made to revolve by the hand; they are put in motion round the Sun by means of a crank at the side, communicated with the Primary gears inside by a horizontal shaft and bevel gear.

A FIVE INCH TERRESTRIAL GLOBE, on mahogany Stand, with Graduated Meridian and Zodiac.

A NUMERICAL FRAME, with ten rods, each having twelve balls, colored black, red, and white, designating units, tens, hundreds, &c.

A SET OF GEOMETRICAL SOLIDS, as Cone and Frustrum; Pyramid and Frustrum; Cylinder; Oblique Cylinder; Prisms, three and six sided; Prolate and Oblate Spheroids; Sphere and Hemisphere; ten Parallelopipeds; five painted paste-board Solids, pasted upon cloth to form a hinge—cut to form various figures by drawing silk cords, with which they are strung; (*See regular solids, page* 8,) a set of Transposing Frames, with which a great variety of geometrical figures may be formed, there being twenty-two pieces, with as many joints. (*Solids explained by 'Holbrook's Easy Lessons.'*)

A Map of the World; Map of the United States; Solar System; Geometrical Diagrams; Alphabet for copies, and Arithmeticons.

Price, with case and packing, $12,00.

Separate articles—Orrery, $8,00; Globe, $2,00; Geometricals, $3; Numerical Frame, $1,25; Maps, each, 20 cts.

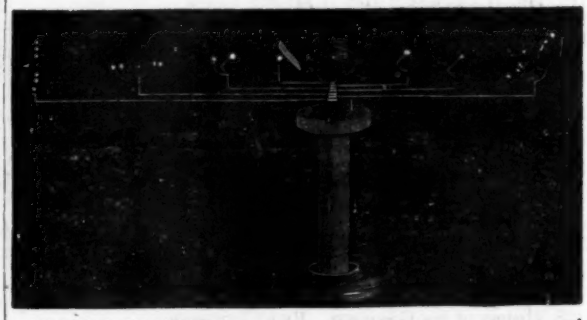
A set of *Dissected Solids*, accompanying "Grund's Solid Geometry." This is a very full and complete set, and suitable for any academy or college. $7,00.

A set of *Solids* to illustrate Cube Root; $1,00 to $1,50.

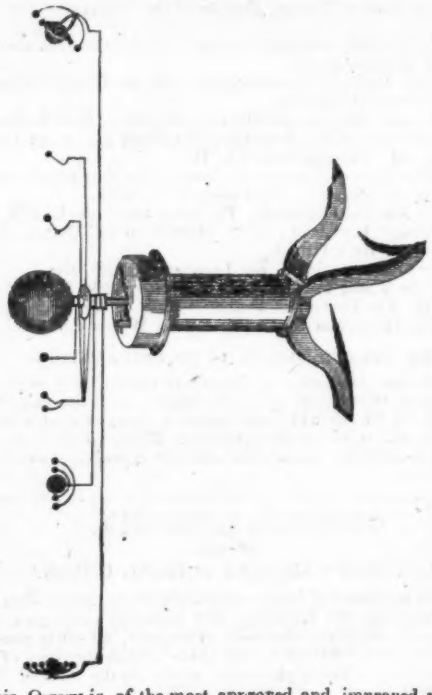
A set of *Solids*—144 one inch cubes, of mahogany, for various illustrations in Geometry; in a box. $2,00.

ASTRONOMICALS.

ORRERY, as in School Set—with gold-gilt Planets, and motion given to the Moon round the Earth. $12,00.



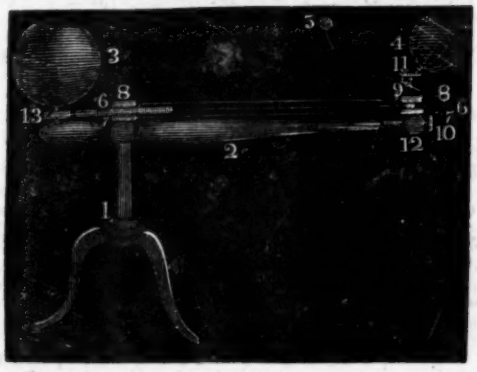
SPRING ORRERY, as represented by the above cut—mounted upon a mahogany Stand; gold-gilt planets; motion given to the moon round the Earth with a stop-motion. $25,00



SPRING ORRERY, mounted upon a brass Stand; gold-gilt Planets; brass arms; motion given to the Earth's Moon.—$35,00. Motion given to Jupiter's Moons, in addition to the above, $40,00

This Orrery is of the most approved and improved plan; being constructed upon the fusee principle, which gives a uniform motion to the Planets; has spiral spring within the pedestal; winds easy, and gives more than two entire revolutions to Herschel; is capable of be-

ing regulated so as to run from seven to fifteen minutes, with perfect uniformity; gear-work of brass, and best of workmanship; Planets and arms easily taken off; the whole packed in a case.



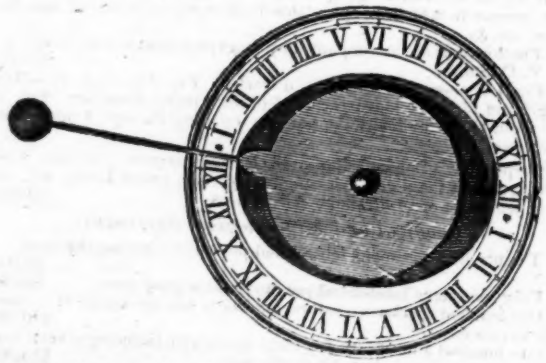
TELLURIUM, OR SEASON MACHINE. 1, brass Stand. 2, rod to support the Earth and Moon. 3, Sun. 4, Earth, (a neat three inch globe.) 5, Moon. 13, hub of the Sun, round which passes a silk cord crossing on to the large centre hub, and passing one end entirely round, then extend both ends, crossing once, and tying round the small brass hub, 6, at the extremity of the arm. The other two grooved hubs (7 and 8) are to be strung straight. 9, inclined circle, on which travels the small truck or wheel supporting the Moon. 11, a level-geer, playing into the small pinion, in the Globe. 10, a milled head screw, passing through the ball and sliding part of the rod 12; turn this screw in or out, as may be necessary to tighten or loosen the cords. The Sun is gold-gilt, and every part thoroughly finished. Put in motion with the hand, and we have the inclination of the Earth to the north; its diurnal and annual revolutions; its aphelion and perihelion position, (only twice the diameter of the Earth;) Sun on its axis, Moons' nodes; substituting a lamp for the Sun, we have solar and lunar eclipses. $12,00.

A cheaper finished machine, mounted on a mahogany Stand, and giving all the motions correctly. $6,00 to $8,00.

The above cut is a representation of a still cheaper machine—giving the Earth's diurnal motion and inclination to the north, and the motion of the Moon round the Earth. The Earth is nicely balanced on its inclination, and its diurnal motion may be given with the hand. $3,00.

TIDE DIAL.

Illustrating the doctrine of tides. $3,00.



Tide Dipper, to show the supposed cause of the opposite tide. $1,00.

A tin *Globe*, (revolved by a wheel and pulley, or gear and pinion) illustrating the theory of the Earth being flattened at its poles. $3.

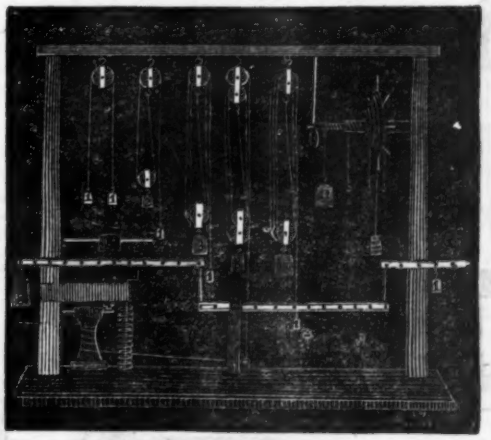
A Tide Dial, in which the shadows of the Earth and Moon are represented as in solar and lunar eclipses. $4,00.

These Tide Dials are brass-geared and mounted upon mahogany Stands; motion given by a crank.

GLOBES.

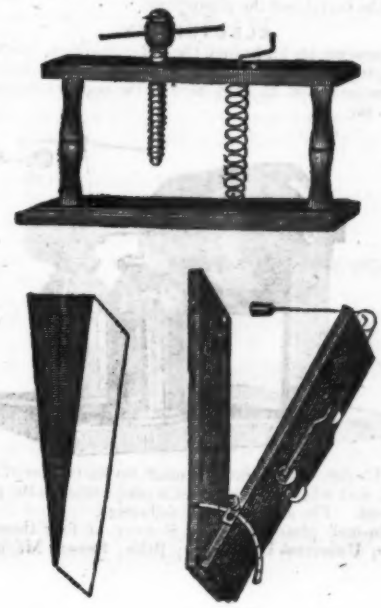
A pair of 10 inch Globes (Celestial and Terrestrial,)		$20,00.
A " " 12 " "	" " "	$30,00.
A " " 18 " "	High Stands,	$100,00.

MECHANICAL POWERS.



This cut represents a frame, including the first, second, and third kind of levers; the wheel and axle having seven graduations, and running upon friction rollers; five changes of Pulleys, from one to three double, running upon steel centre pins; Screw with lever and Nut, Capstan and Handspikes. The Spiral or Screw as an inclined plane. A complete set of Brass Weights, accurately graduated, from one ounce to three pounds, two of each—marked in ounces. All the parts may easily be detached. The Levers are divided into eleven parts, or one to ten; and the fulcrum may be moved at pleasure. There is also connected with this set a Fulcrum and Lever, which is designed to be used in connection with the Screw, combining the power of the Screw and Lever; an inclined Plane, Carriage, and Wedges, as represented in the cuts. The frame is about three feet long, two and a half feet high, and other parts in proportion. $40,00.

A much larger set than the above, having the levers made of brass—brass wheel, with steel axle running upon compound friction rolls—a set of gears, such as the spur gear, spiral gear, bevel and contrate gears: these gears are brought to operate upon the wheel and axle by means of an endless screw and crank. The screw and spiral may be attached to the frame, as in the cut, or on a separate stand, as below. Every part of this set is thoroughly finished. $75,00.



A small frame, including the Levers, (of rosewood) Wheel and Axle, with four graduations, four sets of Pulleys, Inclined Plane and Carriage, Wedge and Screw; also, a set of Brass Weights, from one to sixteen ounces, two of each. The first cut represents the arrangement of the parts. $25,00.

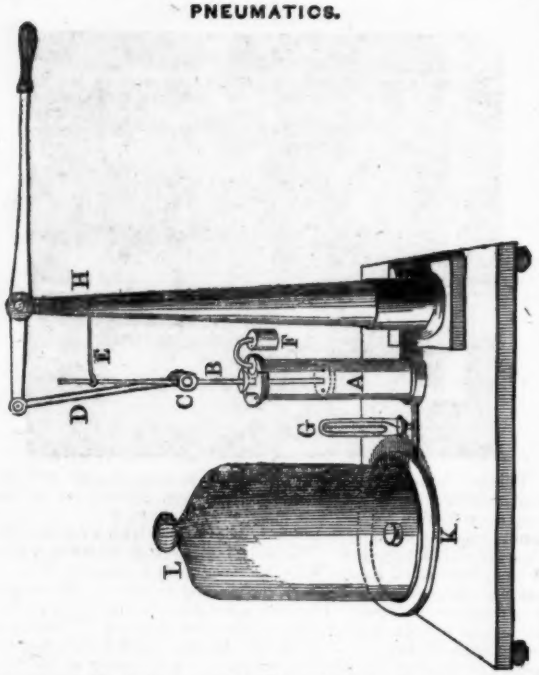
Hunter's Screw. $1,00 to $2,00.

A set of Instruments, illustrating centre of gravity. $7,00.

A Frame, with Graduated Quadrant and six 1¼ inch ivory balls, for elasticity, action and reaction; frame adjusted to a perpendicular by screws in the basement. $8,00.

A Frame, as above, with box wood balls. $6,00.

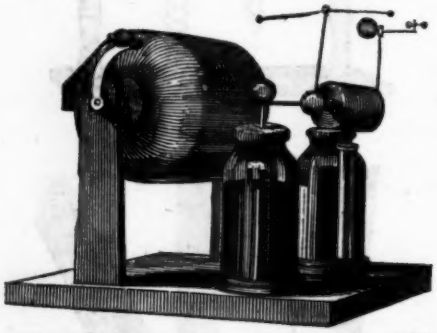
PNEUMATICS.



Air Pump. No. 3, has one plate, K, eight inches in diameter; barrel, A, seven inches long and two inches calibre; small steel piston rod, B, working through a packing box in the cap of the barrel J, and guide E; crosshead, C, in the centre of the piston, and to which is attached the parallel rods, D; H, a post firmly bolted to the basement, and over which the lever works; I, is a cap screwed to the main cap of the barrel, and covers the only valve except the one in the piston; from the top of this cap a curved tube extends over and enters the cup, F, into which the oil if any is blown; G, is a syphon mercury gauge secured in a glass case, and screwed to the tube communicating with the base of the barrel and the pump plate. $25,00.

ELECTRICITY.

Fig. 1 represents an eight-inch Cylinder machine, mounted upon a plain mahogany basement. A sixteen-inch brass prime conductor; upon the basement and at each side of the conductor stands a three-pint Leyden jar. $25,00



A set of Electrical Apparatus is made up for the use of Schools and Academies, and when the whole set is taken at once the price is very much reduced. The articles are as follows:

A sixteen-inch plate machine; Battery of four three-pint Jars; Discharger; Universal Discharger; Bells; Season Machine; S. and point; Thunder House and fixtures; Gas pistol; Platina Igniter; Dancing Images and Plates; Float wheel and point; Spotted Tube; Spotted Jar; Long haired man; Pith Ball Electrometer; Gold Leaf ditto; Electrometer Jar, with Birds and Sportsmen; Insulating Stand; Northern-light Tube; Pith Balls and Jar; Ether Spoon; Revolving Glass Globe; Ladle for spinning sealing wax; Gunpowder Mortar; Miser's plate; box of Amalgum; two Chains. $75,00

CHEMISTRY.

A small set of Chemical Apparatus for the use of schools and academies, includes a Pneumatic Cistern with gasometers, cocks and compound blowpipe; pair of twelve-inch Reflectors, and stands, and iron ball; Lamp Stand with five bows; Pyrometer, with two lamps; Iron Retort and lead tube; Brass Eolepile; Conductometer; a set of Hessian Crucibles; Fire Syringe; Spirit Lamp; Gas Bag with cock, jet and bubble blower; Bell Glass with cap and cock, for collecting and transferring gases; Differential Thermometer; Graduated Measure; Dropping Tube; two Test Tubes; two Bell Glasses; Funnel; three Flasks, ground tops; two Matrasses; two Tubulated Retorts; two Filtering Dishes; Double Bulbed Glass for showing condensation of liquids by mixture; a set of Chemical Tests, as Manganese, Chlorate of Potash, Phosphorus, Iodine, Oxalic Acid, Fluor Spar, Sulphuric, Muriatic and Nitric Acids, and Sulphuric Ether, all packed in one box, so as to be transported safely, with careful handling. $50,00

OPTICS.

Fig. 1.

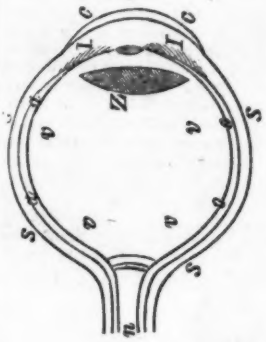
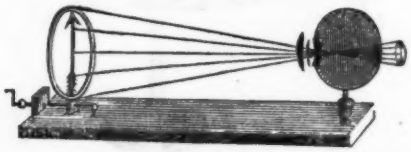


Fig. 2.

Fig. 3.



The above cuts represent models of the Human Eye in three parts.

Fig. 1. is the eye and all its parts complete; it is made of wood and glass, in such a manner as to be dissected, and all the parts be seen in their true form and proportions. A stand accompanies this piece of the apparatus.

Fig. 2, represents the eye in its socket, with the nerves, &c., complete.

Fig. 3, represents the rays passing from an object into the eye, and forming an inverted image upon the retina. This piece also illustrates the manner in which the eye adapts itself to objects more or less distant, &c. &c.

These models are accompanied by an explanation and drawings by J. V. C. Smith. $12,00

Fig. 1 is about four inches in diameter. Fig. 2 is about 12 inches high, and 13 or 14 long; the eye-ball three inches diameter. Fig. 3 is about 15 inches long; the part representing the eye 4 inches in diameter.

Carpenter's (London) Improved Phantasmagoria Lantern with spring to hold the sliders, brass adjusting tube, patent Lamp, &c., in box, with a set of 12 sliders for Astronomy. $38,00

Geological and Mineralogical Specimens.

Twenty-five specimens labeled and put up in a mahogany case. $3,00.

Fifty specimens labeled and put up in mahogany case. $5,00.

One hundred specimens, embracing many fine specimens of minerals, in two cases. $10,00.

One hundred and twenty-five large specimens, including several fine foreign specimens of minerals in one case. $15,00.

A set as above, put up in a case with drawers. $20,00.

Set of Natural History, comprising the most remarkable of the six Linnean Classes, copied from correct sources, in fifty-six sliders, as follows:—Mammalia, 24 sliders; Birds, 7 sliders; Fish, 5 sliders; Reptiles, 4 sliders; Insects, 8 sliders; Worms, &c., 8 sliders. The sliders contain from three to six different objects each, in box with book of explanation. $85,00

Either of the above 6 classes may be had complete at each slider, $1,50; or when selected from the different classes, each slider. $1,62

Ancient Costume in 6 sliders, $9,00

Modern Costume of different nations, in 56 sliders, $84,00

Costume Sliders, separate, each $1,62

Set of Kings and Queens of England, from William the Conqueror in 9 sliders, $15,00

Movable Humerous Sliders in great variety, each slider, $1,75 to $3,50

Views of Cities, Landscapes, &c., $2,25 to $4,00

Movable Slider, showing the revolution of the planets round the sun, $6,00

Movable Slider, showing the revolution of a comet in its orbit, $5,00

Movable slider for showing the apparent, direct and retrograde motion of Venus, $5,00

Movable Slider for showing the phenomena of the seasons, $6,00

Movable Slider for producing the tides, and phases of the moon, $5,00

NEW YORK SCHOOL APPARATUS.

Depository, No. 136 *Nassau st., New York. Address* DANIEL HASKEL *;—if by mail, post paid.*

Astronomical, Philosophical, Geometrical, Geographical, and Arithmetical apparatus, suited to primary, common and high schools, and academies, well calculated to illustrate the subjects to which it relates, and at low prices. This apparatus has been introduced into all the public, and many of the most respectable private schools in the city of New York, and into many of the first schools in other parts of the country; and it has gained the entire approbation of the most intelligent teachers. A box of Family Apparatus may also be had, designed for the instruction and entertainment of children and youth.

LIST OF ARTICLES BELONGING TO THE NEW YORK SCHOOL APPARATUS.

The cards and maps in the following list are neatly put upon binders' board, bordered with red paper, and varnished; and are fitted to be hung, as literary ornaments, on the walls of a school room. This mode of putting them up, though it adds considerably to the expense of these articles, renders them ten times more valuable than they would be in sheets.

The articles marked thus, * belong to the set for common schools. The set for high schools include the foregoing, and all the articles in addition, marked thus, †. Teachers can select sets from all the articles at their pleasure.

All the articles are made in the most substantial manner; and the expense of them, once incurred, needs not to be repeated for years. Good school apparatus, like labor-saving machinery in the arts, will be found economical, both in regard to time and expense.

Any of the articles can be obtained separately at the Depository.

WRITING.

	$ c.
*Set of round text copies, and copies for beginners, on binders' board and varnished,	0 75
*Card of the manner of holding the pen,	0 37

ARITHMETIC.

13 cards of arithmetical copies,	4 50
*The same in sheets,	0 63
*Arithmetical card, with moveable counters and an explanation,	0 56

GEOGRAPHY.

Arrowsmith's large map of the World, the largest globular map ever published in the United States, each hemisphere being 3 feet in diameter, corrected to the present time.	
In sheets, painted, to be pasted on the walls of the school room,	4 00
Mounted on rollers,	7 50
5 inch terrestrial Globe on a pedestal,	2 00
3 inch terrestrial Globe on a pedestal,	1 50
2 1-4 inch do. do.	0 75
*Globular revolving map of the world, 19 inches in diameter, on a pedestal,	2 25
*Map of the United States,	0 75
*Map of Europe,	0 75
*Map of geographical terms,	0 37
*Map to illustrate ancient history,	0 50
†Large map of the mountains of the world,	0 75
†Cylindrical revolving Mercator's Chart, on a pedestal,	1 25

GEOMETRY.

*Card of geometrical figures, with lessons on geometry,	0 56
†Example of the protractor,	0 18
*Geometrical solids; cone, cylinder, sphere, cube, pyramid, prism, parallelopipeds,	1 00
†Machine to illustrate angles, sines, chords, tangents, secants, &c.	1 25

ASTRONOMY.

*5 inch terrestrial Globe, with the moon attached, and a lamp for the sun, on a pedestal containing the Zodiac,	3 00
5 inch celestial Globe on a pedestal,	2 00
Planetarium, encompassed with a zodiac and concave,	10 00
The same with a brass pedestal and arms; a more highly finished article,	16 00
†The same, with a zodiac only on a pedestal,	6 00
Tellurian, containing a three inch globe with the moon and its phases, and Mercury, Venus and Mars attached,	5 00
Tellurian with three inch globe, with the moon and its phases, and a lamp	4 00
Tellurian with three inch globe and moon, without its phases and a lamp,	3 00
†Tellurian with two inch globe and moon,	2 00
Tide globe, three inches in diameter,	1 50
†Tide globe, two inches in diameter,	1 00
†Terrestrial globe, with moveable horizon, moon, rings of stars, and lamp for the sun, on a pedestal containing the Zodiac,	4 00
†Celestial globe,	2 00
*Armillary sphere, with the solar system revolving in it,	2 50
Ditto, with the earth in the centre,	2 50
*Orbit and plane of an orbit,	0 50
*Machine showing the inclinations of the orbits of the planets and their nodes,	0 75
*Machine for explaining the moon's nodes,	0 75
†Machine for explaining umbra and penumbra, in solar and lunar eclipses,	2 50
Card of the solar system,	0 44
The same, with small, moveable planets,	0 75
*The same, with small ivory planets,	1 00
*Card of the phases of the moon,	0 44
*Double quadrant for taking angles,	0 50
*Machine showing the earth as an oblate spheroid,	1 25
*Lessons on Astronomy,	0 18

PHILOSOPHY.

Frame of pulleys, levers, and wheel and axle,—Inclined plane,—Wedge, Screw,—Centre of gravity,—Action and re-action,—Double cone, moving up an inclined plane,	16 00
†Machine for explaining intermittent springs,	1 25
†Syphon,	0 18
†Machine showing the resistance of the air,	0 50
†Large prism, to be filled with water,	0 75
Philosophical top, showing the blending of the primary colors to form light,	1 00
†Machine showing the focus of a lens,	0 50
†An eye, showing the inverted image on the retina,	1 50
†Six cards of philosophical plates,	2 25

Besides the last mentioned set, all the plates belonging to Furguson's Lectures on Natural Philosophy, forty-eight in number, will be furnished if desired, either on cards or in a book form.

The following are the prices of the several sets in boxes.

Family Apparatus,	from $3 to $ 5 00
Common School Apparatus,	20 00
High School Apparatus,	61 50

Arrowsmith's map of the World, in sheets, painted, would add 4 dollars to the above sets.

GERMAN BOARDING SCHOOLS.

A young gentleman, mentioned by Mr. Combe, in his Lectures on Education, in writing from Cassel to his friend in Edinburgh, presents the following lively and instructive picture of the German boarding-schools. "In German boarding schools," he says, "natural history is a prominent object of pursuit, and the boys are instructed in the outlines of Zoology, Ornithology, Entomology, and Mineralogy. This, I believe, is a branch of education never taught in seminaries of the same description in Britain; but it is devoured by the learners on the continent with the utmost avidity. *There the teacher is not an object of fear, but a friend of his pupils.* He takes them, about once a fortnight, to visit some manufactory in the neighborhood, where they are generally received with kindness, and are conveyed through the whole building by the owners, who seem to have pleasure in pointing out the uses of the various parts of the machinery, and in explaining to their juvenile visiters the different operations that are carried on. Suppose, for example, that an expedition, is undertaken to a paper-mill; the boys begin their scrutiny by inspecting the rags in the condition in which they are at first brought in; then they are made to remark the processes of cutting them, of forming the paste, of sizing the paper, &c., with the machinery by which it is executed. On their return they are required to write out an account of the manufactory, and of the operations performed in it, and of the manufactured article.

"During the summer months, pedestrian excursions are undertaken, extending to a period of perhaps two, three, or four weeks. Every thing worthy of attention is pointed out to the boys as they go along; and deviations are made on all sides, for the purpose of inspecting every manufactory, old castle or other remarkable objects in the neighborhood. Minerals, plants, and insects are collected as they proceed, and thus they begin early to appreciate and enjoy the beauties of external nature. If they happen to be travelling in the mountainous districts of the Hartz, they descend into the mines, and see the methods of excavating the ore, working the shafts, and ventilating and draining the mine. Ascending again to the surface, they become acquainted with the machinery by which the minerals are brought up, the processes of separating the ore from the sulphur, and the silver from the lead, and the mode in which the former metal is coined into money.

"Having become familiar with these operations, the boys next, perhaps visit the iron works, and here a new scene of gratification is opened up to their faculties. The furnaces, the different kinds of bellows, the methods of casting the iron and forming the moulds,—every thing in short, is presented to their senses, and fully expounded to them. In like manner they are taken to the salt works, and manufactories of glass, porcelain, acids, alkalies, and other chemical bodies, with which that part of Germany abounds. If any mineral springs be in the neighborhood, these are visited, and the nature and properties of the water explained. In short, no opportunity is neglected, by which additions to their knowledge may be made. This knowledge, too, is of a kind that remains indelibly written on their memory, and that is often recalled in after life with pleasure and satisfaction.

"These journeys not only have a beneficial effect on the mind, but also conduce, in no small degree, to the growth and consolidation of the body. They are performed by short and easy stages so as not to occasion fatigue.

"On their return home, the boys write an account of their travels, in which they describe the nature of the country through which they have passed, and its various productions minerals, and manufactures. This is corrected and improved by the teacher. The minerals and plants which have been collected, serve at school to illustrate the lessons. The boys also go through a regular course of study, and receive lessons in religion, geography, French, and the elements of geometry. They are taught also the elements of astronomy; not merely the abstract particulars generally given in courses of geography in Britain, relative to the moon's distance, the diameter and period of revolution of the earth, and the like, but also the relative positions of the principal constellations. The figure of cubes, cones, octagons, pyramids, and other geometrical figures, are impressed upon the minds of the junior boys by pieces of wood, cut in the proper shapes. Latin is taught to those who particularly desire it. Poles are erected in the garden for gymnastics, and boys receive every encouragement to take muscular exercise."

LENGTH OF SCHOOL SESSION FOR YOUNG CHILDREN.

The length of confinement, (how cruelly expressive of school time is this word) should, of course, depend upon the age and physical condition of the child; and the recesses should occur as often as his wearied mental powers require them.

It would be impossible to prescribe any precise number of hours which schools should be kept for children of different ages, and under all circumstances; because the child of nine years cannot bear so much as one of fourteen; and none of them can study so long in dog days, as in the spring.

A school, such as I suppose you would wish to see, should be entirely at the discretion of the master, with respect to the hours it is to be kept; and his rule should be never to confine his pupils to their duties longer than he can command their attention, and interest them in their lessons. He would extend the time over as great a part of the day as possible, and have frequent and long recesses.

Were he limited to six hours instruction, I think he would effect more by holding three daily sessions, of two hours each, one in the morning, one at noon, and one towards night, with an intermission of fifteen minutes in the middle of each session, than he could, by having two sessions of three hours, and a recess in the middle of each.

The principles of physiology would teach him that, even were it possible to keep up a long continued and intense mental activity, it would be only at a very great risk; he would consider that over-action of the brain fatigues it, just as much as over-action of the muscles of the arm fatigues them; with this fearful difference however, that over-action of the brain, in young persons, may lead to subsequent mental weakness, imbecility, and even idiocy. Moreover he would consider that its effect, though certain, is less obvious at first, and that functional disease of the organ may make considerable progress unobserved even by the sufferer.

But alas! how little attention is generally given to this subject; and into what strange contradictions are people led in governing children! How often do you see a master, or a parent, striving to keep immovable in his seat, for hours together, a robust boy, of sanguine temperament, to whom motion is as natural as to an eel, and whose body almost bounds from innate elasticity; and who is punished perhaps for some start or outbreak which he could not help, by being deprived of his recess, instead of being let out to blow off his extra steam by the rough and tumble exercises of the play-ground.

There was as much philosophy as fun, in the boy of this impatient temper of body, who after writhing with the tortune of confinement and silence for two hours, suddenly shocked the decorum of the school by a loud and shrill whistle; and being sternly asked by the master why he did so, replied, "I did'nt whistle, Sir, *it whistled itself!*"

Sometimes again, you may see a boy whose brain and nervous system are already too much developed,—who would leave play for study,—and whose puny frame already shows the effect of over-activity of mind,—you shall see him, I say, excited to more intense application by praise, or by emulation, until his over-tasked powers give way, and the precocious prodigy sinks below the level of his companions, and perhaps remains for life a weak and inefficient man.

My experience leads me to the conclusion that children under eight years of age should not be confined in one position, or have their minds fixed upon one branch of study, *more than half an hour at a time;* that by following this rule, and giving them long recesses to be spent in the open air, they may study four entire hours daily. It also leads me to believe, that children over eight, and less than fourteen years, should not be confined in one position, or at one branch of study, more than three quarters of an hour at a time; and that they should have the last quarter of each hour for exercise in the play-ground; that is, they should leave their seats at fifteen minutes before ten or eleven, and be back to them again, by the time the clock strikes the hour. During recess, the doors and windows should be opened and the room freely ventilated. In this way children may be kept in school from eight in summer, and nine in winter, to noon; and from three to six in the afternoon.

If our school committees, or common councilmen, would fully realize the operation of being shut up in school, an hour and a half, and required to give close attention to study, let them (if they are twenty-four in number,) hold their meetings, in a closet eight feet square, and as many in height, and be called to order for every hitch of their chair, and for every yawn; and see how long before an adjournment will be called for; and yet such a closet would be as large in proportion to the number, (allowing for difference of size of the persons,) as is allowed to children in schools not far from the metropolis.—*Dr.* S. G. Howe's *Letter to Mr. Mann.*